Joint Experimentation

LTC Bryan Luke
Chief, Joint Experimentation Branch
Joint Staff J7 (JETCD)

Combined Joint Concept Development and Experimentation Conference

Why are We Here?

- **CJCS JE Guidance, 9 Jan 06**: USJFCOM will "*work directly with the Services, Combatant Commands, the defense agencies, interagency, multinational partners, and the Joint Staff to develop a cohesive plan to synchronize and, when appropriate, integrate experimentation activities.*"
  - Updated R&R to CJCS JE Guidance (4 Dec 06): USJFCOM develop a JI&E Campaign Plan, covering a 3 year cycle and updated annually, that includes the minimum following elements
    - Identification of a set of prioritized joint warfighter challenges for potential JE, concept development, prototyping, or other innovative activity.
    - A schedule /calendar of JI&E Enterprise events and activities matched to specific warfighter challenges/experimentation objectives and potential solutions (when known)
    - Identification of event/activity sponsors, participants, and points of contact.

- **CJCS JE Guidance, 9 Jan 06**: USJFCOM, "*using assessments and inputs from the joint concept development and experimentation community, will recommend a prioritized set of* transformational issues *for JE and present these priorities to the JCS for approval prior to the beginning of each fiscal year.*"

Changed to *Warfighter Challenges* in 4 Dec update to JE Guidance Memo

END STATE - Joint Innovation & Experimentation

Campaign Plan

Campaign Plan (JP 1-02) A plan for a series of related military operations aimed at accomplishing a strategic or operational objective within a given time and space. (Army) *A broad concept of operation that sequences a series of related joint operations or events, provides strategic direction, focus, or major tasks and objectives, achieves unity of effort, provides an orderly schedule of decisions and events, designates command relationships, and clearly defines what constitutes success.*

3 Year CPLAN (with WFCs aligned to Events/Activities)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Event / Activity	Urban Resolve 2015					Trident Warrior 07				MNE 5 Minor Integrating Event		
	Argentine – US Crisis Management Experiment						Unified Action 07			Create New Event (if Needed)		
Concept Development	IW JOC →											
	Shaping JOC →											
Joint Exercises							Cobra Gold 07					

- **What issue/challenge in BA are you investigating in what event/activity and when?**
- **What specific question's do you need answered**

General → about th… event/acti…

Specific → **Tier 1**: Capability Area
Tier 2: Warfighter Challenge
Tier 3: Specific question associate… with WFC for that event/act…

WFC's Linkage to Joint Experiments and Research Questions / Objectives

Challenge 12: It is often difficult to craft agreed and achievable guidance at the strategic level for all government actors, particularly in a coalition environment.

12.1: How do we establish agreed and achievable strategic guidance in a coalition environment?
12.2: What should be included in a comprehensive strategic guidance?
12.3: Who should be part of the strategic planning process?
12.4: How do we reach consensus on the end state and strategic objectives of a coalition?

Challenge 16: A common challenge for civilian and military organizations is the measurement of results on the ground and evaluation or assessment of progress toward goals. Many organizations lack sufficient internal methods to evaluate how their plans are progressing, thereby making it even more difficult to implement shared multi-organization solutions.

16.1: How do we measure results and use those measurements at the operational and strategic levels to assess progress toward achieving the desired end state?
16.2: How do we design compatible approaches to assessment across interagency and multinational organizations to facilitate coordinated decision-making during the execution of interventions?
16.3: Which interagency organizational structures can be most effective in facilitating coordinated assessment during the execution of interventions across interagency, international, non-1government and multinational organizations?
16.4: How can we improve our understanding of the cultures of other organizations?
16.5: How can we improve our understanding of the practices of other organizations?

Warfighter Challenge Statement

The Joint Force [1a] does not have the capability in the area of Battlespace Awareness [2a] to analyze and disseminate [2b] time sensitive intelligence from integrated ISR assets to tactical level operators [1b] in a timeframe that allows rapid, effective Unified Action against Terrorists, WMD, and other time sensitive enemy targets in denied areas. [3]

1. Capability Definition.
1a - Scope (Joint/MN/IA);
1b - Specific Area Investigation;
1c – Scenario/Environment (if environment/Scenario Specific)
2. Areas of Analysis/JCA Mapping
2a – JCA Tier 1
2b – JCA Tier 2
3. Strategic Guidance

Required "Products" to Achieve a Campaign Plan

WFC Prioritized List

ID	I.V.	Short Title	WFC Problem Statement
C1		Lift Capability	The JFC requires the capability to leverage sufficient inter/intra-theater lift for the rapid delivery, repositioning, or reconfiguring forward deployed forces to meet changing mission requirements and resources throughout the full range of operations in support of RWOT/GWOT and TSC operations.
C2		Logistics Tracking and Visibility	The JCF requires Intransit visibility of distribution activities to sufficiently meet the needs of the warfighter. Stakeholders throughout the distribution process currently do not have the ability to determine shipment status through system access or event management. ITV is not adequately supported and often requires manual workarounds due to disparate systems, lack of awareness, access, and training. There needs to be visibility of all cargo from the point of loading to the point of offloading, especially when crossing Areas of Responsibility (AOR). This lack of visibility limits the issuing activities ability to respond to routine customer requests for updated shipment information in a timely manner.
C3		Joint, Interagence, Multinational Interoperability	The JFC requires interoperability among all conventional forces, special operations forces, other government agencies, law enforcement agencies, and multinational partners in order to conduct preventive, preemptive, or reactive counterterrorism operations and other security and forward presence operations.
C4		Maritime Crisis Respons	DOD and DHS require a methodology for aligning limited USCG capabilities and forces for geographic CCDR warfighting, maritime HD and HS, as well as other (maritime safety, aids to navigation), etc. requirements.
C5		Interagency and Multinational Operations in Irregular Warfare	The JFC requires the capability to monitor and coordinate with interagency and multi-national operations to support the component's distributed units engaged in the 3-block war to empower to operate across political, economic, social, and military functions to defeat insurgents and assist the establishment of governance.
C6		PMESII	The JFC requires the capability to exchange, process, and disseminate relevant tactical and operational information that includes political, economic, and social knowledge in order to conduct effective operations to counter irregular threats.
C7		Combat Target ID	The Joint Force Land Component requires in the area of Battlespace Awareness the capability to provide real time combat ID with automated joint sensor integration, provide a single battle command system and provide Common Operational Picture for mounted and dismounted

Identify "What" Joint Issues you want to investigate

Identify which of these Issues / Challenges are most important or most pressing

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C7		Combat Target ID	The Joint Force Land Compor Awareness the capability to pr joint sensor integration, provid provide Common Operational

Focus Areas for II&E CPLAN

Top 20% Warfighter Challenges (Aligned to J CAs)

- **Force Management**
  - Agile Future Combat Force – Global
  - Force Agility MCO – SSTRO – Transition
  - Joint Force Modularity and Basing - Reinforcement
- **Battlespace Awareness**
  - CWMD ISR
  - Urban Detection and Tracking
  - Future Global Indications and Warning – ISR
  - Persistent ISR for Forcible Entry
  - Adaptive Intel for SSTRO
- **Command and Control**
  - Flexible Crisis Response C2 – Joint, IA, & MN
- **Net-Centric Operations**
  - Interagency Common Operational Picture
- **Interagency / IGO / NGO / Coordination**
  - *Architecture for Unified Action*
- **Logistics**
  - Adaptive Lift Capabilities - Employment
  - Joint Logistics Re-engineering
  - Rapid Deployment Planning and Execution
- **Defense Support of Civil Authorities**
  - *Improve Joint Force Ability to Support Civil Authorities*
- **Homeland Defense**
  - Improving Interagency C2 for Disaster Response
  - Protection of Homeland Critical Infrastructure
  - Operational Maritime Domain Awareness
- **Shaping**
  - *Informing and Influencing Perceptions*
- **Stability Operations**
  - *Military Support to Stability Operations*
- **Information Operations**
  - *Information Operations Integration and Assessment*
- **Special Operations & Irregular Warfare**
  - Conducting Distributed Maneuver – Irregular Operations
- **Land Operations**
  - Integrating Kinetic & Non-Kinetic Fires/Forces – ...thal effects

Of the identified prioritized Issues / Challenges, which ones do you need to focus on for the next CPLAN?

Issues / Challenges aligned with Joint Capability Areas (JCA's) to facilitate linkage to acquisition process and long term tracking of the issue

Required "Products" to Achieve a Campaign

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C2		Logistics Tracking and Visibility	The JCF meet the process through supporte systems, visibility especiall visibility requests
C3		Joint, Interagence, Multinational Interoperability	The JFC operatio agencies preempt
C6		Operations in Irregular Warfare	distribute political, assist the
C6		PMESII	The JFC relevant economi to count
C7		Combat Target ID	The Joint Awarene joint sens provide C

Focus Areas for JI&E CPLAN

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- **Force Management**
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  - Force Agility MCO – SSTRO – Transition
- **Logistics**
  - Adaptive Lift Capabilities - Employment
  - Joint Logistics Re-engineering

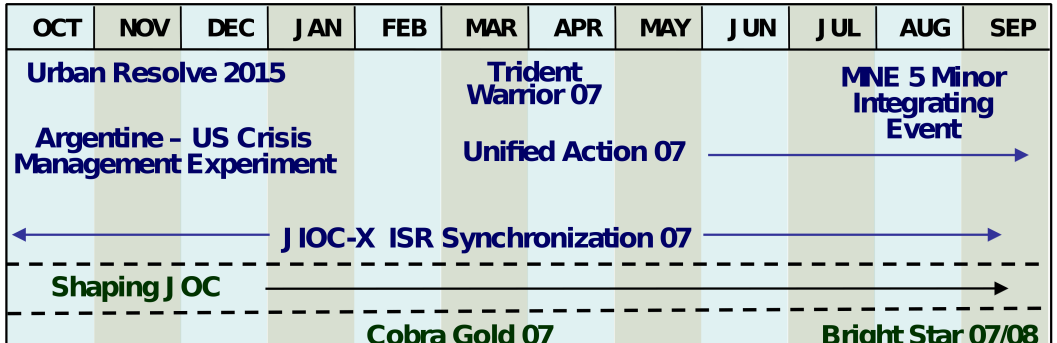
WFC: Current Activities / Potential Solutions

What is the "Health" of the WFC?

Challenge: Architecture for Unified Action	Potential Solutions	Lead Organizations
The Joint, IA, MN, IGO, NGO community requires an architecture that provides structures, processes, and capabilities for planning, coordination, execution and assessment of operations to rapidly achieve the desired effects through a unified effort by all mission	Cross-Domain Collaborative Information Environment	JFCOM, J9
	MN IA & NGO Information Flow	JFCOM, J9
	Coalition Shared Intelligence Network Environment	EUCOM
	USG Handbook on Stabilization and Reconstruction	JFCOM, J9
	USG Planning Process	JFCOM, J9
	Multinational Interagency Group Process	JFCOM, J9
	Scenario-based USG planning tool (Horizon)	JFCOM, J9
		JFCOM, J9

Joint Capability Area	Warfighting Challenge		FY 07 Solution Health	FY 07 Exp Health	COCOM Customers								Services				Spectrum of Conflict (JOCs)					
					CENTCOM	PACOM	EUCOM	SOUTHCOM	SOCOM	NORTHCOM	TRANSCOM	FCOM	STRATCOM	JSA	JSAF	JSCG	JSMC	JSN	SHAPING	DETERRENCE	MCO	IRREGULAR	SSTRO	HLD / CS
Joint Interagency / IGO/ NGO/ Coordination	Architecture for Unified Action	M																					

- Good coverage
- Limited coverage
- Direct submission from COCOM, service, or agency
- Mission benefit from solution
- Challenge matches an identified JOpsC gap
- Challenge is likely to appear as an identified JOpsC gap



Activities	Leads
Argentine-US CME	SOUTHCOM
Urban Resolve 2015	JFCOM, J9
Unified Action 07	JFCOM, J9
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Trident Warrior 07	USN
JIOC-X ISR Synch 07	JFCOM, J9
Shaping JOC	EUCOM/JFCOM
Cobra Gold 07	PACOM
Bright Star 07/08	CENTCOM

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C7		Combat Target ID	The Joint Force La[illegible] Awareness the cap[illegible] joint sensor integra[illegible] provide Common

Focus Areas for JI&E CPLAN
Top 20% Warfighter Challenges (Aligned to JCAs)

- **Force Management**
  - Agile Future Combat Force – Global
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- **Battlespace Awareness**
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  - Flexible Crisis Response C2 – Joint, IA, & MN
- **Net-Centric Operations**
  - Interagency Common Operational Picture
- **Interagency / IGO / NGO / Coordination**
  - *Architecture for Unified Action*
  - *Establishing Unity of Effort in Coalition Operations*
  - *Facilitating Interagency Integration – Terrorism*
  - *Multinational Force Interoperability*
  - *Conducting Comprehensive MN, Interagency, & NGO Operations*
- **Protection**
  - Defeating WMD Delivery Systems
  - Force Protection Against Terrorist Acts
  - Battlespace Security
  - Detect and Track Nuclear Materials
- **Logistics**
  - Adaptive Lift Capabilities - Employment
  - Joint Logistics Re-engineering
  - Rapid Deployment Planning and Execution
- **Defense Support of Civil Authorities**
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t Forces Command 9

End State: Joint I&E Campaign Plan

WFC: Current Activities / Potential Solutions

Challenge: Architecture for Unified Action

The Joint, IA, MN, IGO, NGO community requires an architecture that provides structures, processes, and capabilities for planning, coordination, execution and assessment of operations to rapidly achieve the desired effects through a unified effort by all mission partners.

Architecture for Unified Action Selected Solutions	Lead Organizations
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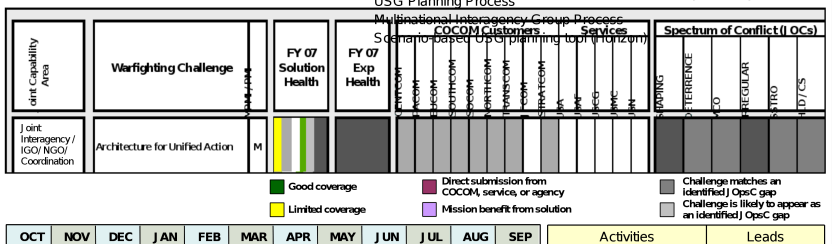
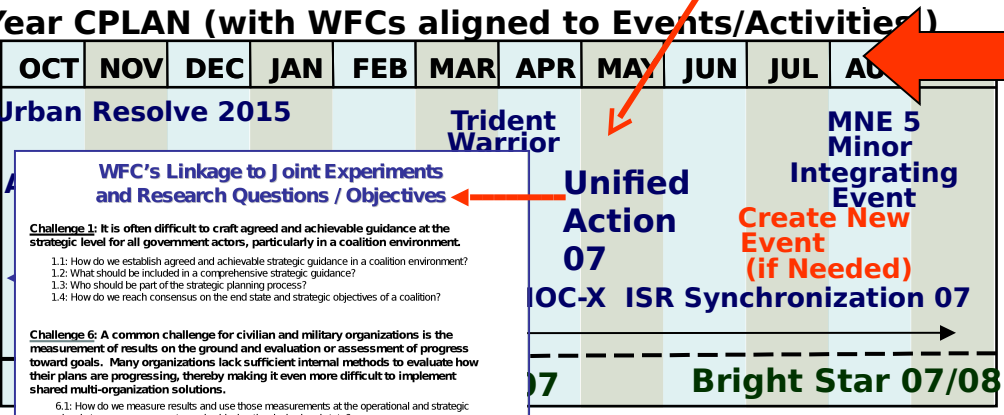
Scenario-based USG planning tool (Horizon)	


Joint Capability Area
Warfighting Challenge
FY 07 Solution Health
FY 07 Exp Health
COCOM Customers
Services
Spectrum of Conflict (LOCs)
Joint Interagency / IGO/ NGO/ Coordination
Architecture for Unified Action
M
Good coverage
Limited coverage
Direct submission from COCOM, service, or agency
Mission benefit from solution
Challenge matches an identified J OpsC gap
Challenge is likely to appear as an identified J OpsC gap

Year CPLAN (with WFCs aligned to Events/Activities)



WFC's Linkage to Joint Experiments and Research Questions / Objectives

Challenge 1: It is often difficult to craft agreed and achievable guidance at the strategic level for all government actors, particularly in a coalition environment.

1.1: How do we establish agreed and achievable strategic guidance in a coalition environment?
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Challenge 6: A common challenge for civilian and military organizations is the measurement of results on the ground and evaluation or assessment of progress toward goals. Many organizations lack sufficient internal methods to evaluate how their plans are progressing, thereby making it even more difficult to implement shared multi-organization solutions.

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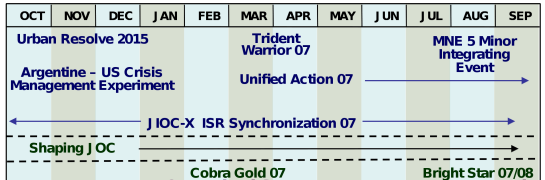
J9 – United States Joint Forces Command 11



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Shaping JOC	EUCOM/J FCOM
Cobra Gold 07	PACOM

END STATE - Joint Innovation & Experimentation

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C3			
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C5			
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C7		Combat Target ID	The Joint Force Land Component requires in the area of Battlespace Awareness the capability to provide real time combat ID with automated joint sensor integration, provide a single battle command system and provide Common Operational Picture for mounted and dismounted

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  - Operational Maritime Domain Awareness

HOW Do You Prioritize?

- Open / transparent processes
- Includes both informal and formal collaboration / staffing
- Inclusive – What is important to the JCDE community members and DoD
- Governance and Oversight -- Final Arbitrator / Decision Authority

Year CPLAN (with WFCs aligned to Events/Activities)

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AU

Urban Resolve 2015

Trident Warrior

Unified Action 07

MNE 5 Minor Integrating Event

Create New Event (if Needed)

IOC-X ISR Synchronization 07

07 Bright Star 07/08

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J9 – United States Joint Forces Command 11

WFC: Current Activities / Potential Solutions

Challenge: Architecture for Unified Action

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Joint Capability Area	Warfighting Challenge	FY 07 Solution Health	FY 07 Exp Health	COCOM Customers	Services	Spectrum of Conflict (LOCs)
Joint Interagency / IGO/ NGO/ Coordination	Architecture for Unified Action	M				

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OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

Urban Resolve 2015
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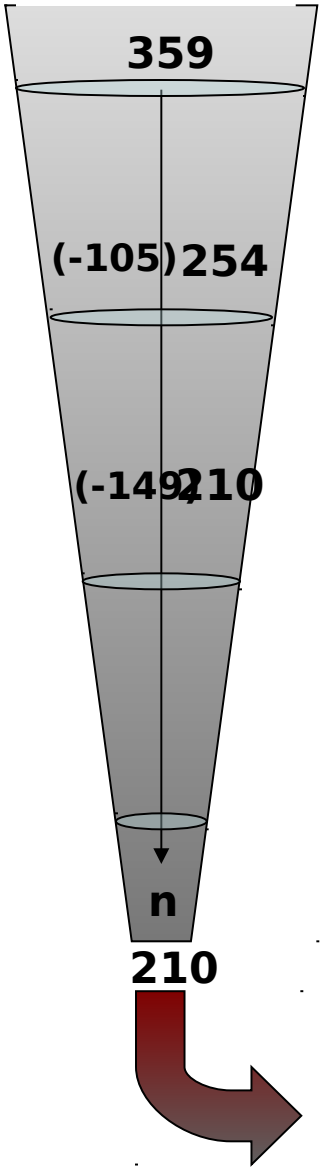
Cobra Gold 07	PACOM

Prioritization Process

Joint Warfighting Challenges



Screen → Separate challenges from concerns Eliminate those with limited joint value or lacking experimentation potential

Consolidate → Combine similar challenges into similar focus groupings (reduce redundancies and identify potential synergies)

Map to JCAs

Prioritiz → Community collective assessment of the

We have a Process

- ***Can we execute better / Improve?***

Criteria will change as process refined

ID criticality of Challenge

Add weighted modifying

- **Higher tasking**
- **MPMI relevance**
- **Level of war**
- **JOpsC gap**
- **Multiple COCOM interes**

Conduct Sensitivity Analysis

Analyze Results (Review and Refine)

Collaborativ → Prioritize

Weights will changes based on Sensitivy Analysis and feedback

Closer alignment to / leverage of existing processes

Combined Joint Concept D
Experimentation Conference

Prioritization Process - Time Line

PHASE:

I
- Collect
- Screen
- Combine

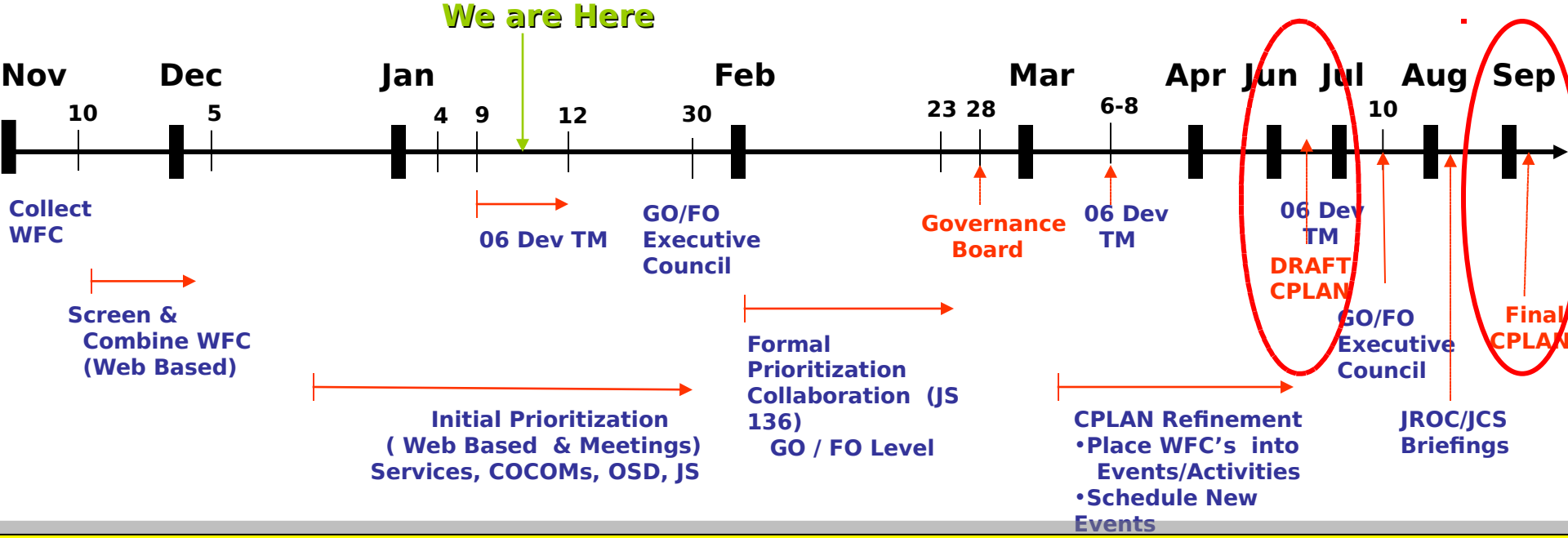
II
- Informal Collaboration AO / 06 Level (Web Based)

III
- Formal Input / Collaboration Go/FO Level (JS136)

IV
- Adjudication / Governance Board

V
- CPLAN Refinement

VI
- CPLAN Approval & Publication



We can not slip development any further to right!
development timeline with future guidance and requirements processes whenever p

Questions?

FY 08 Prioritization Criteria

JWC Value = IV + 2/3 A + B + 1/3 C + D + E

- **(IV) = Initial Value of the Challenges (Weight 1)**
  - **Critical Contribution = 5**
  - **Immediate Contribution = 3**
  - **Incremental Benefit = 1**

Maximum possible value 9.0

Minimum possible value is 1.0

- **(A) = Tasking (Weight 2/3)**
  - **Specified task or mission stated within a DOD directive of higher strategic guidance = 2/3**
- **(B) = MPMI (Weight 1)**
  - **Directly related to an MPMI = 1**
  - **Directly related to a Additional Issues Requiring Assessment = 1/2**
- **(C) = Level of War (Weight 1/3)**
  - **Operational = 1/3**
- **(D) = Identified JOpsC gap (Weight 1)**
  - **Warfighter need specifically stated = 1**
- **(E) = WFC submitted by multiple COCOM, Service or Agency (Weight 1)**
  - **WFC exists in 3 or more C/S/A = 1**